

Claims

What is claimed is:

- 5 1. A temperature control system for an inkjet printhead assembly, comprising:
 a printhead assembly having ink ejection elements energizable by an electrical
 pulse having an amplitude and pulse width;
 a sensor coupled to the printhead assembly for generating a signal representative
 of the printhead temperature;
 a memory for storing current printhead operating parameters; and
 a controller for reading a nominal operating pulse width, the signal from the
 sensor and the printhead operating parameters, said controller calculates an adjusted pulse
 width using the nominal operating pulse width, the signal from the sensor and the current
 printhead operating parameters;
 wherein the controller uses the adjusted pulse width to control printhead
 temperature.
2. A method of controlling the temperature of an inkjet printhead comprising:
 providing a printhead assembly having ink ejection elements energizable by an
 electrical pulse having an amplitude and pulse width;
 reading a nominal printhead operating temperature and a nominal operating pulse
 width;
 obtaining current printhead operating parameters from a memory and a current
 printhead operating temperature using a sensor on the printhead;
 adjusting the pulse width based on the printhead operating parameters and the
 measured temperature of the printhead; and
 applying the adjusted operating pulse width to the printhead to control printhead
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temperature.

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